



System			PERFORMANCE		
ZYGO P/N	6306-0360-04 sys	stem with full enclosure	Vertical Scan Range	150 µm with precision Piezo drive;	
	6306-0360-05 sys	stem with 1/2 height closure	Surface Topography	20 mm with extended scan	
Measurement	Technique SureScan [™] technology		Repeatability ⁽¹⁾	0.12 nm	
•			Repeatability of RMS ⁽²⁾	0.01 nm	
Scanner	Precision Piezo drive with Closed loop capacitance gauge control and crash protection		Optical Lateral Resolution ⁽³⁾	0.34 µm (100X objective)	
Objectives	1.0X – 100X magnification; Standard and long working distance; See the Nexview & NewView 9000 Series Objective Chart for more details		Spatial Sampling	0.04 µm (100X objective 2X zoom)	
			Maximum Data Scan Speed ⁽⁴⁾	53 μm/sec @ 1600 x 1200 69 μm/sec @ 1000 x 1000 107 μm/sec @ 1000 x 600 171 μm/sec @ 1000 x 200	
Objective Mounting Options	 Single objective dovetail Manual Encoded 4-position turret Motorized 4-position turret 		Step Height Repeatability ⁽⁵⁾	0.1%	
Optical Zoom	Motorized 3-position encoded zoom • 0.5X, 1.0X, 2.0X included • 0.75X, 1.5X optional		Step Height Accuracy ⁽⁶⁾	0.3%	
			TEST PART CHARACTERISTICS		
Field of View	Objective and zoom	selectable from	Material	Opaque, transparent, coated, uncoated, specular, rough	
Illuminator	•	thing for larger areas the white light source	Maximum Sample Height	260 mm under X axis Crossbeam 329 mm under typ. objective focus	
	with software-selectable field stop, aperture stop and spectral filters		Maximum Surface Slope	55° – smooth part @ 100X 85° – scattering surface	
Measurement Array	Selectable 1600 x 1200, 1000 x 1000, 1000 x 600, 1000 x 200		Sample Reflectivity	0.05% - 100%	
Part Viewing	Selectable Monochrome imaging with		ENVIRONMENTAL REQUIREMENTS		
Focus	available fringe-free viewing mode Motorized manual or auto focus with Part Finder and Smart Setup Technology		Temperature	15 to 30°C with rate of change <1.0°C per 15 min	
			Humidity	5 to 95% relative, noncondensing	
Z-Drive (Focus) Stage	150 mm range with		Vibration Isolation	Included and required for vibration in the range of 1 Hz to 120 Hz	
Part Stage		Encoded linear motor drive with 650 x 650 mm XY travel range		VC-C or better	
Stage	Split axis gantry style; X-stage translates Head; Y-stage translates the sample		Acoustic Criterion	NC30 or better	
Configuration Sample Holder	Custom vacuum san		FOOTNOTES		
	650 x 650 mm avail	• •	Performance specifications under laboratory conditions using standard specimens, according to ISO 25178-601, 25178-604 and 5436-1.		
System Controller	i7 class PC with 108		(1) Surface Topography Repeatability for CSI mode, 1-sec acquisition, full FOV with 3x3 median filter, in a laboratory		
Software	ZYGO Mx software running under Microsoft Windows 10 (64-bit)		environment. (2) Repeatability of the RMS surface roughness parameter Sq, under		
PHYSICAL		the same conditions as for (1). Note that the repeatability of the Sq is sometimes referred to informally as "vertical resolution."			
Dimensions	System with enclosu		 (3) Lateral Resolution=Sparrow criterion, objective dependent. (4) Data scan speed depends on the measurement array and data acquisition mode. 		
(HWD) Weight	166 x 140 x 164 cm System: 1830 kg				
	System with enclosure: 1955 kg		(5) 1- σ Step height repeatability verified using 1.8 µm and 24 µm		
UTILITY REQUIREMENTS		ZYGO certified step height standards.			
Input Voltage	100 to 240 VAC, 50/60 Hz		(6) Instrument contribution to uncertainty for step height measurements using the piezo drive.		
Compressed Air for isolation	4.1 to 5.5 bar (60 to filtered; 1/4 in. input				
Vacuum	Optional from a cust based on part stage	tomer supplied source, requirements			

Specifications subject to change without prior notice.

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